A Series 1-4 Pole Rotary Switches

Features/Benefits

- Multi-pole and multi-position
- Positive detent
- Shorting & non-shorting contacts
- Panel and PCB mounting
- RoHS Compliant



Models Available

Specifications

- CONTACT RATING: Q contact material: Switch 2.5 AMPS @ 125 V AC; 1 AMP @ 250 V AC; 350 mA @ 125 V DC (UL/CSA). Carry - 5 AMPS continuous. See page K-6 for additional ratings.
- ELECTRICAL LIFE: Up to 15,000 make-and-break cycles at full load up to 300,000 detent operations.
- CONTACT RESISTANCE: Below 20 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.
- INSULATION RESISTANCE: 10 $^{9} \Omega$ min.
- DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level. Operating and storage temp: -30° to 85°C
- OPERATING & STORAGE TEMPERATURE: -30°C to 85°C

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Typical Applications

- Automotive
- Major and small appliances
- Industrial equipment



Materials

HOUSING & BUSHING: Glass filled 6/6 nylon (UL 94V-0).

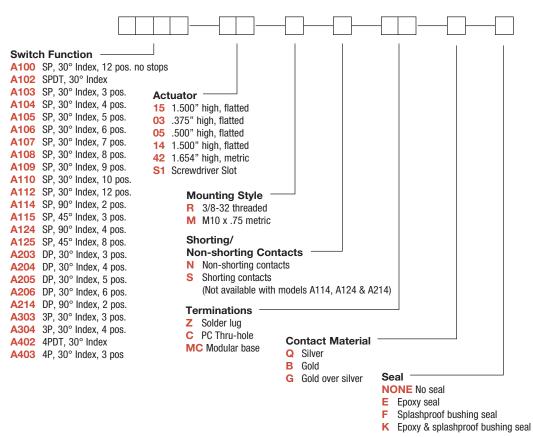
ACTUATOR: Glass filled 6/6 nylon (UL 94V-0).

- MOVABLE CONTACTS: Q contact material: Coin silver, silver plated. See page K-6 for additional contact materials.
- STATIONARY CONTACTS & TERMINALS: Q contact material: Brass, silver plated. See page K-6 for additional contact materials.
- HARDWARE: Nut zinc, nickel plated. Lockwasher steel, bright zinc plated. Stop Ring brass, nickel plated.

TERMINAL SEAL: Epoxy.

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages K–4 through K–7. For additional options not shown in catalog, consult Customer Service Center.



K-3

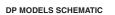
Dimensions are shown: Inch (mm)

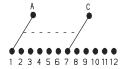
Specifications and dimensions subject to change

SWITCH FUNCTION					
-----------------	--	--	--	--	--

30° INDEXING				
NO. MODEL POLES NO.		SWITCH FUNCTION	TERMINALS	
	A100	12 Position No Stops	A,1-12	
	A102	SPDT	A,1,2*	
	A103	3 Position	A,1-3*	
	A104	4 Position	A,1-4*	
	A105	5 Position	A,1-5*	
SP	A106	6 Position	A,1-6*	
	A107	7 Position	A,1-7	
	A108	8 Position	A,1-8	
	A109	9 Position	A,1-9	
	A110	10 Position	A,1-10	
	A112	12 Position	A,1-12	
	A203	3 Position	A,C,1-3,7-9	
DP	A204	4 Position	A,C,1-4,7-10	
	A205	5 Position	A,C,1-5,7-11	
	A206	6 Position	A,C,1-12	
3P	A303	3 Position	A,B,C,1-3,5-7 9-11	
3P	A304	4 Position	A,B,C,1-12	

SP MODELS SCHEMATIC 1 2 3 4 5 6 7 8 9 10 11 12





3P MODELS SCHEMATIC R

1 2 3 4 5 6 7 8 9 10 11 12

4P MODELS SCHEMATIC

1 2 3 4 5 6 7 8 9 10 11 12

D

R

30° INDEXING NO. POLES MODEL SWITCH TERMINALS FUNCTION NO. A,B,C,D,1,2,4,5,7, A402 4PDT 8,10,11 4P A403 3 Position All Terminals

45° INDEXING				
NO. POLES			TERMINALS	
SP	A115	3 Position	A,1,2,4*	
0.	A125	8 Position	A,1,2,4,5,7,8,10,11	

90° INDEXING			
NO. POLES	MODEL NO.	SWITCH FUNCTION	TERMINALS
SP	A114	2 Position	A,1,4*
0.	A124	4 Position	A,1,4,7,10
DP	A214	2 Position	A,C,1,4,7,10

TERMINAL NUMBERS

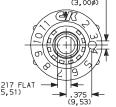


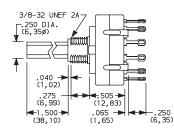
Terminal numbers molded on bottom of housing.



4P MODELS SP MODELS (omit terminals B, C & D) DP MODELS (omit terminals B & D)









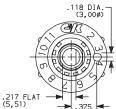
TERM. NOS. MOLDED ON HOUSING



Rotary 🛪 🗄 🖿

NOTE: * These models with 'C' or 'MC' terminations have additional terminal no. 9 as switch support only. This terminal is not connected electrically inside switch.

All models ${}_{\mbox{c}}\mbox{Nu}_{\mbox{us}}$ with all options when ordered with 'G' or 'Q' contact material, see page K-6.

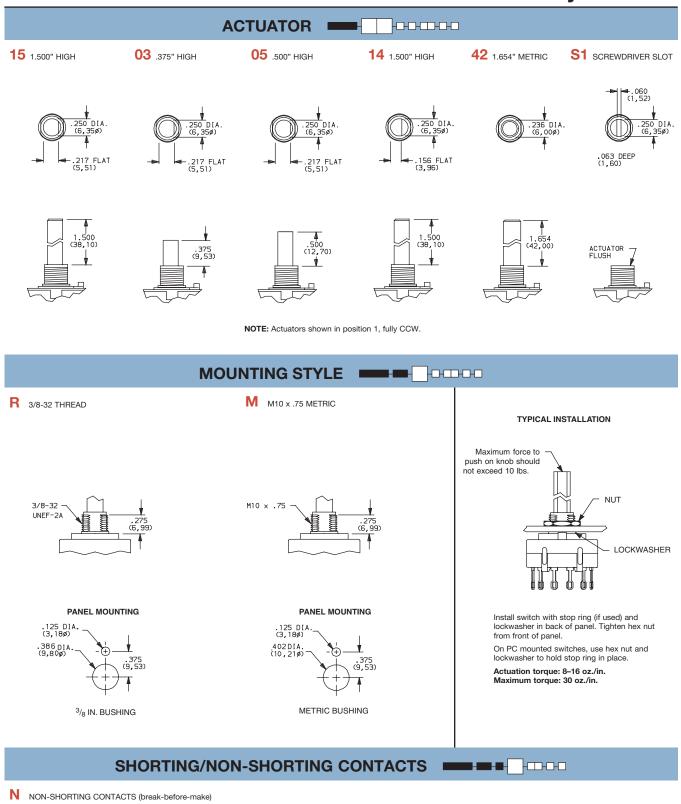




20 Apr 21

Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

A Series 1-4 Pole Rotary Switches



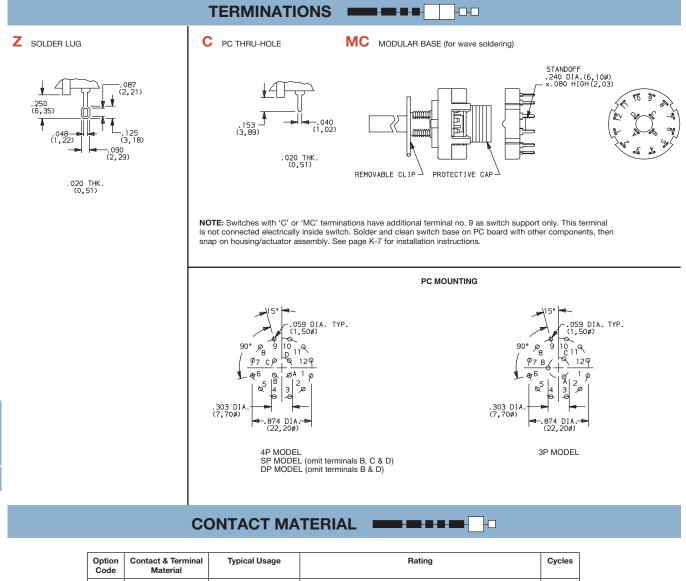
SHORTING CONTACTS (make-before-break)

NOTE: 'S' shorting contacts are not available with A114, A124 and A214 models.



Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

A Series 1-4 Pole Rotary Switches



Option Code	Contact & Terminal Material	Typical Usage	Rating	
Q	Silver ²	Power	SWITCH – 2.5 AMPS @ 125 VAC; 1 AMP @ 250 VAC (UL/CSA) CARRY – 5 AMPS CONTINUOUS	6,000
			SWITCH – 350 mA @ 125 VDC (UL/CSA) CARRY – 5 AMPS CONTINUOUS	15,000
В	Gold ¹	Low level/ Dry circuit	0.4 VA MAX. @ 20 V AC OR DC MAX	15,000
	Gold over silver ³	Low level/ Dry circuit or power	0.4 VA MAX. @ 20 V AC OR DC MAX	15,000
G			SWITCH – 350 mA @ 125 VDC (UL/CSA) CARRY – 5 AMPS CONTINUOUS	15,000
			SWITCH – 2.5 AMPS @ 125 VAC; 1 AMP @ 250 VAC (UL/CSA) CARRY – 5 AMPS CONTINUOUS	6,000

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications.

- ¹ MOVABLE CONTACTS: Copper alloy, with gold plate over nickel plate.
- STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate. ² MOVABLE CONTACTS: Coin silver, silver plated.
- STATIONARY CONTACTS & TERMINALS: Brass, silver plated (standard with all termination options). ³ MOVABLE CONTACTS: Coin silver, with gold plate over nickel plate over silver plate.
- ³ MOVABLE CONTACTS: Coin silver, with gold plate over nickel plate over silver plate. STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate over silver plate.

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

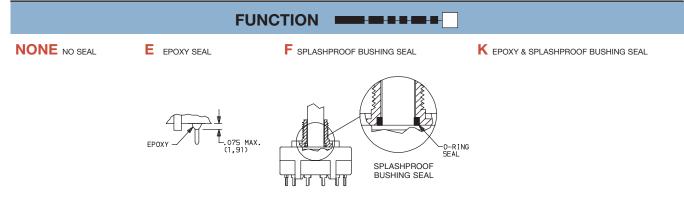
All models c^{Wus} with all options when ordered with 'G' or 'Q' contact material. **NOTE:** 'G' contact material is equivalent to both 'B' and 'Q" contact materials.



Specifications and dimensions subject to change



Rotary X



Setting Stops on A112 and A125 Models

The number of switch positions is adjustable on A112 and A125 models only by means of a stop ring provided with each switch. The number of positions is pre-set on all other models and the stop ring is factory installed. To set stops: Turn shaft fully counter-clockwise and insert stop ring tab in desired hole. Install lockwasher and nut to retain stop ring for both PC and panel mounting. Switch without stop ring has 12 positions.

Soldering, Cleaning and Assembly Instructions for 'MC' Termination Option

Soldering

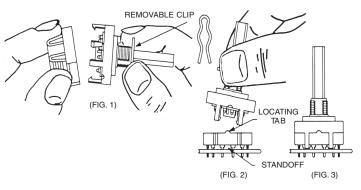
- 1. Insert switch base only into PC board.
- 2. Do not bend terminals.
- 3. Wave soldering recommended at 500F solder temperature.
- 4. Hand solder at 500F, 10 sec. max./terminal.

Switch Assembly

- 1. Hold housing/shaft assembly by housing. Remove protective cap by squeezing tabs and discard. (FIG. 1)
- 2. Do not push on switch shaft. Detent mechanism will come apart.
- 3. While holding switch housing, align locating tab on base with notch on housing and engage 4 housing latches in slots on base. (FIG. 2)
- 4. Push firmly on housing until latches snap in place.
- 5. Remove clip from shaft and discard. Assembly is complete. (FIG. 3)

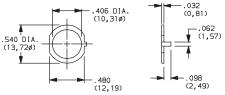
Cleaning

- 1. Flux clean using vapor degreaser and forced rinse or triple bath method.
- 2. Do not allow switch base to 'trap' fluids.
- 3. Freon TMC, TF or Methylene Chloride give excellent results.



AVAILABLE HARDWARE

Stop ring





PART NO. 767B00201 Material: Brass Finish: Nickel plated

Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

Rotan

Third Angle Projection

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rotary Switches category:

Click to view products by C&K manufacturer:

Other Similar products are found below :

57HS22-02-2-06N 57M22-02B16N 57M22-09A16N M3786/4-0881 M3786/4-3267 M3786/4-5568 M3786/4-6029 71ESF30-05204N MC06L1NCGF 84986-26 9003K2C003GA PLR3251 PLR3262 PS3 A0142M2SP A019605 A029303 R2AA4455NNNN R2BB4455NNNN DR75-AMSF-10R-B 14-520.0360 1703.3201 HW1MS-0202-101 24002-03S A029101 ACSNO-129-YB-C1014 ACSNO-134-RR-YB-C1005 ACSNO-353-SB-C3016 1825537-4 T505 T505E 24005-03N H10207RR01Q M3786/4-0002 M3786/4-0630 M3786/4-1028L M3786/4-1233L M3786/4-3044 M3786/4-3129 M3786/4-5008L M3786/4-5256 MC6CX1A502X009 42HS36-01-1-06N 42P36-03B10S 44MBS60-04-2-03N 44MG90-02-1-02N 50KMT90-01-2-02N 51A22-01-1-16S 51CDP30-01PAJN 51KSP30-01D04N